

**REMARKS**

During prosecution in co-pending patent application Serial No. 09/685,283 claims 16-21 were subject to a restriction requirement and subsequently cancelled by Applicant without prejudice. The above-identified Application is a divisional application directed to the subject matter of cancelled claims 16-21 as well as additional subject found in the original disclosure of Application Serial No. 09/685,283. The present divisional application is a retyped and reformatted version of Application Serial No. 09/685,283, and includes paragraph numbering. No new matter was added.

This Amendment includes new claims 22 - 63 in accordance with the original disclosure of Application Serial No. 09/685,283. Support for independent claim 16 which is directed to an AA7000 series aluminum alloy having improved as-cast surface quality, said alloy is comprised of from about 5 to about 5,000 ppm calcium, from about 0.001% to about 0.25% grain refiners, and being essentially beryllium-free, is found, for example, at page 6, lines 6 - 11 (i.e., paragraph [0027]) and at page 6, lines 18 - 27 (i.e., paragraph [0029]) of the present divisional application. No new matter was added.

Support for independent claims 36 and 43 which are directed to an AA7050-type aluminum alloy having improved as-cast surface quality, said alloy comprising from about 5 to about 5,000 ppm calcium, from about 0.001 to about 0.25 wt.% grain refiners, and being essentially beryllium-free is found, for example, at page 6, lines 6 - 11 (i.e., paragraph [0027]) and at page 6, lines 18 - 27 (i.e., paragraph [0029]) of the present divisional application.

Independent claim 43 incorporates the composition of AA7050, as it is registered in the Revised January 2001 edition of the Aluminum Association's *Unified North American and International Registration Records*. No new matter was added.

Support for independent claims 50 and 57 which are directed to an AA7055-type aluminum alloy having improved as-cast surface quality, said alloy comprising from about 5 to about 5,000 ppm calcium, from about 0.001 to about 0.25 wt.% grain refiners, and being essentially beryllium-free is found,

for example, at page 6, lines 6 - 11 (i.e., paragraph [0027]) and at page 6, lines 18 - 27 (i.e., paragraph [0029]) of the present divisional application.

Independent claim 57 incorporates the composition of AA7055, as it is registered in the Revised January 2001 edition of the Aluminum Association's *Unified North American and International Registration Records*. No new matter was added.

Support for dependent claims 22-24, 34, 37, 41, 44, 48, 51, 55, 58 and 62 which are directed to concentration ranges of calcium in the invention is found, for example, at page 4, lines 26 - 27 (i.e., paragraph [0023]) and at page 6, lines 18 - 25 (i.e., paragraph [0029]) of the present divisional application. No new matter was added.

Support for dependent claims 19, 38, 45, 52 and 59 which are directed to the type of grain refiners in the invention is found, for example, at page 5, lines 11-15 (i.e., paragraph [0025]) of the present divisional application. No new matter was added.

Support for dependent claims 21, 42, 49, 56 and 63 which are directed to an ingot cast from the aluminum alloy of the invention is found, for example, at page 3, lines 6-8 (i.e., paragraph [0010]) and at page 7, lines 14 - 20 (i.e., paragraph [0032]) of the present divisional application. No new matter was added.

Support for dependent claim 25 that is directed to the concentration range of grain refiners in the invention is found, for example, at page 5, line 1 (i.e., paragraph [0023]) of the present divisional application. No new matter was added.

Support for dependent claims 26 - 34, 39, 40, 46, 47, 53, 54, 60 and 61 which are directed to the types and concentration ranges of grain

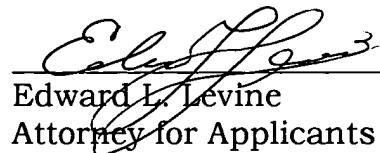
refiners in the invention is found, for example, at page 4, lines 16 - 27 (i.e., paragraph [0026]) and at page 5, lines 1 - 5 (i.e., paragraph [0026]) of the present divisional application. No new matter was added.

Respectfully submitted,



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PATENT TRADEMARK OFFICE

  
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MARKED-UP VERSION OF CLAIMS

16. (Once Amended) An AA7000 series aluminum alloy [that contains essentially no Be and] having improved as-cast surface quality, said alloy is comprised of from about 5 to [1,000] about 5,000 ppm calcium, from about 0.001% [and up] to about 0.25% grain refiners, and being essentially beryllium-free.

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